Perfect Forwarding Exercises

Copyright © James Raynard 2021

Forwarding

- What is meant by "forwarding"?
- What is meant by "perfect forwarding"?

Copyright © James Raynard 2021

std::forward()

- What does std::forward() do?
- What is the result of calling std::forward() when its argument is
  - lvalue
  - lvalue reference
  - rvalue reference

Copyright © James Raynard 2021

std::forward()

- In the previous set of exercises, you wrote a program which demonstrated a forwarding reference
- Extend this program by adding a function g() which takes an lvalue reference and prints out its argument type. Overload g() with a version that takes an rvalue reference
- Modify the function with the forwarding reference so that it calls the appropriate overload of g() for its argument
- Test your program and check that it gives the expected results

Copyright © James Raynard 2021